Name: _____

New York State Testing Program

2023 Mathematics Test Session 1

Grade 4

May 2–4, 2023

RELEASED QUESTIONS

Session 1

TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

- Read each question carefully and think about the answer before making your choice.
- You have been provided with mathematics tools (a ruler and a protractor) to use during the test. It is up to you to decide when each tool will be helpful. You should use mathematics tools whenever you think they will help you to answer the question.

1 Which value is equivalent to $700{,}000 + 5{,}000 + 200 + 10 + 9$?

A 705,209

B 705,219

C 750,209

D 750,219

2 Jen runs 8 laps around a track. Carol runs 2 times as many laps as Jen. Which equation can be used to determine the number of laps Carol runs?

A $8 \div 2 = \_?\_$

B $8 - 2 = \_?\_$

C $8 + 2 = \_?\_$

D $8 \times 2 = \_?\_$

5 What is the product of 432 and 6 ?

A 2,482

B 2,492

C 2,582

D 2,592

6 Which statement about an acute triangle is true?

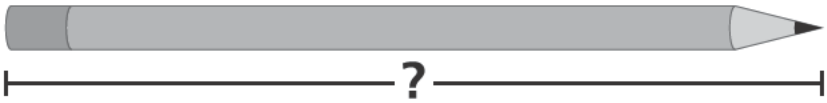
A It has one angle that is exactly 90 degrees.

B It has one angle that is greater than 90 degrees.

C It has angles that are each less than 90 degrees.

D It has angles that are each greater than 90 degrees.

9 A pencil is shown below.



What is the length, in inches, of the pencil?

A $4\frac{1}{4}$

B $4\frac{1}{2}$

C $5\frac{1}{4}$

D $5\frac{1}{2}$

10 Which mixed number is equivalent to $\frac{13}{3}$?

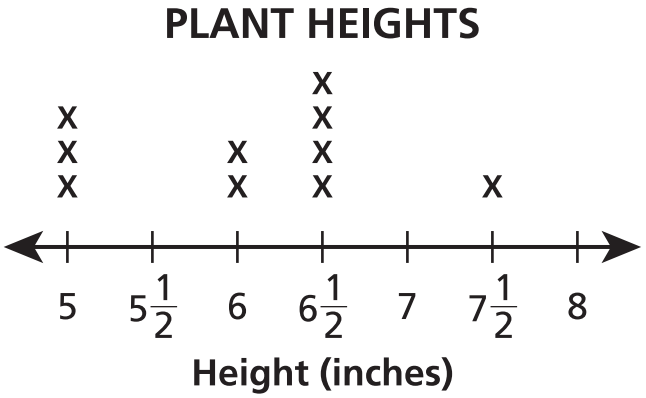
A $3\frac{1}{3}$

B $3\frac{2}{3}$

C $4\frac{1}{3}$

D $4\frac{2}{3}$

13 The line plot shown below represents the heights of ten different plants.



What is the difference in height, in inches, between the tallest plant and one of the shortest plants?

A $2\frac{1}{2}$

B 3

C 4

D $6\frac{1}{2}$

17 What is the rule for the number pattern shown below?

64, 32, 16, 8, . . .

A subtract 8

B divide by 2

C divide by 8

D multiply by 2

19 What is the missing value in the equation shown below?

$$\underline{\quad ? \quad} \times \frac{3}{6} = 15 \times \frac{1}{6}$$

A 3

B 5

C 12

D 18

20 Tiffany has 5 times as many red apples as she has green apples. If she has 20 red apples, how many green apples does she have?

A 4

B 15

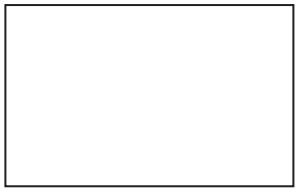
C 25

D 100

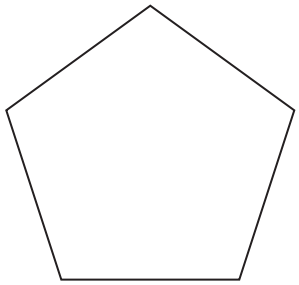
GO ON

23 Which figure appears to have exactly two lines of symmetry?

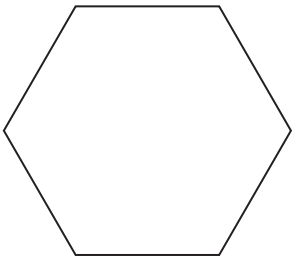
A



C



B



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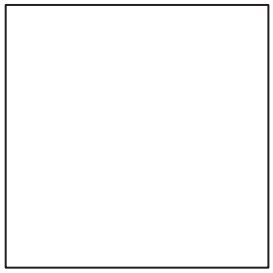
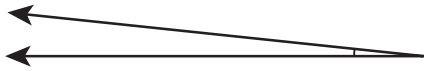
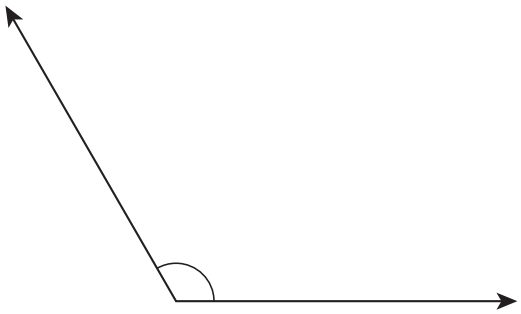


25 Which angle has a measure of 60° ?

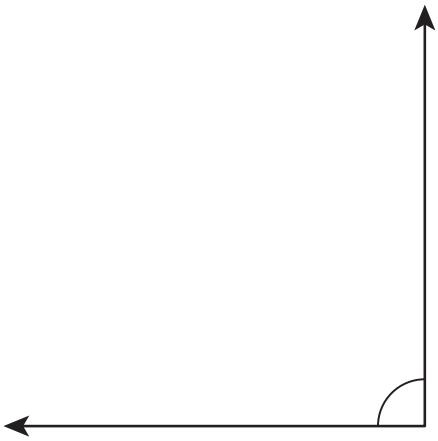
A



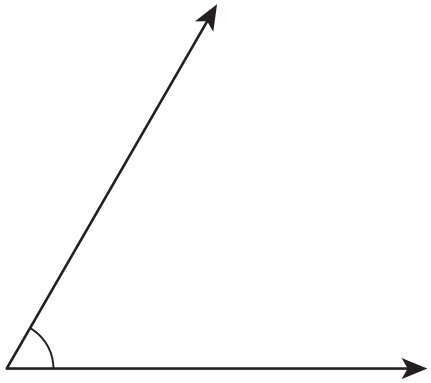
C



B

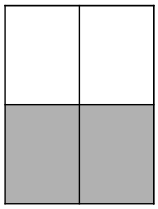


D



GO ON

29 The shaded part in the model shown below represents a fraction of the whole model.



Which fraction is equivalent to the value represented by the shaded part in the model?

A $\frac{4}{2}$

B $\frac{2}{1}$

C $\frac{1}{2}$

D $\frac{1}{4}$

30 What is the value of $7{,}225 \div 6$?

A $1{,}204$

B $1{,}204$ r1

C $1{,}205$

D $1{,}205$ r1

STOP

Name: _____

New York State Testing Program

2023 Mathematics Test Session 2

Grade 4

May 2–4, 2023

RELEASED QUESTIONS

Session 2

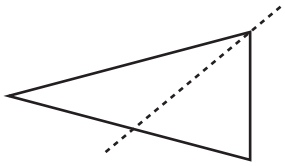
TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

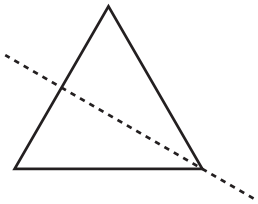
- Read each question carefully and think about the answer before making your choice or writing your response.
- You have been provided with mathematics tools (a ruler and a protractor) to use during the test. It is up to you to decide when each tool will be helpful. You should use mathematics tools whenever you think they will help you to answer the question.
- Be sure to show your work when asked.

31 In which triangle does the dotted line appear to be a line of symmetry?

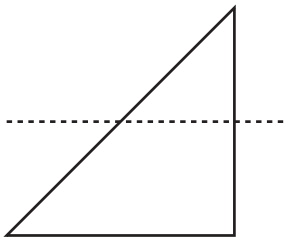
A



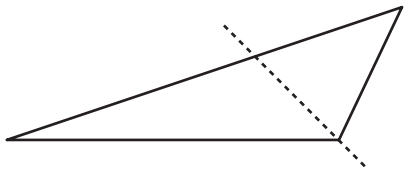
B



C



D



32 Which comparison is true?

A $\frac{1}{4} < \frac{2}{8}$

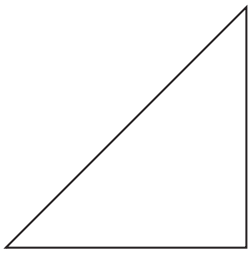
B $\frac{1}{3} > \frac{3}{6}$

C $\frac{3}{6} = \frac{5}{8}$

D $\frac{2}{3} = \frac{4}{6}$

GO ON

33 Which statement about the figure shown below is true?



A It appears to have all acute angles.

B It appears to have all obtuse angles.

C It appears to have two parallel sides.

D It appears to have two perpendicular sides.

34 Tim has 3 packs of markers. Each pack has 12 markers. Which equation can be used to find the total number of markers, n, that Tim has?

A $12 \times n = 3$

B $3 \times 12 = n$

C $3 \div n = 12$

D $12 \div 3 = n$

35 What is the value of 24×11 ?

A 35

B 48

C 264

D 364

36 **This question is worth 1 credit.**

Rosie combined $1\frac{3}{4}$ gallons of cranberry juice and $\frac{3}{4}$ gallon of apple juice to make fruit juice. How many gallons of fruit juice did Rosie make with the cranberry juice and apple juice?

Answer _____ gallons

GO ON

37 **This question is worth 1 credit.**

What is the number 88,678 rounded to the nearest thousand?

Answer _____

38 **This question is worth 1 credit.**

How many one-degree angles are in a complete circle?

Answer _____ one-degree angles

GO ON

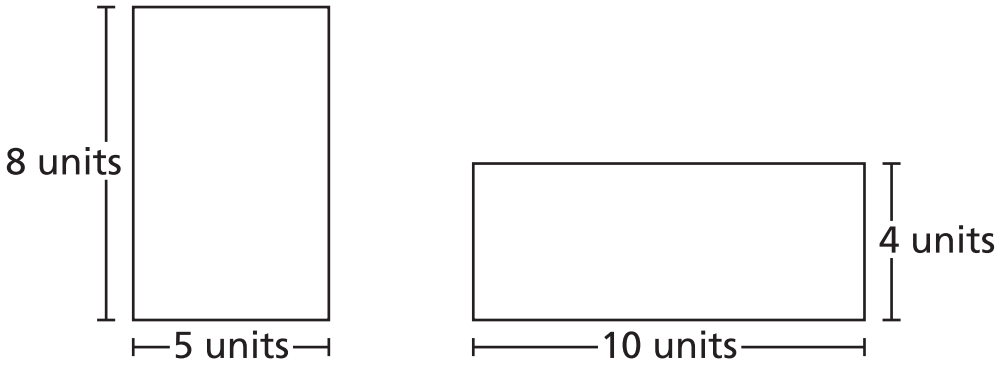
39 **This question is worth 2 credits.**

Which quadrilaterals shown below appear to be rectangles? Be sure to include what you know about angles and sides in your answer.

Explain how you know your answer is correct.

40 **This question is worth 2 credits.**

A student draws the two rectangles shown below.



Rectangle A **Rectangle B**

The student thinks the two rectangles have the same area but different perimeters. Is the student correct? Be sure to include the areas and perimeters of both figures in your answer.

Explain your answer.

41 **This question is worth 2 credits.**

What fraction can be added to the expression shown below to have a total value of one whole?

$$\frac{2}{12} + \frac{7}{12}$$

Show your work.

Answer _____

42 **This question is worth 2 credits.**

Stacey played the same game two times. She scored 36 points in the second game, which is 4 times as many points as she scored in the first game. How many points did Stacey score in the first game?

Explain how you know your answer is correct.

43 **This question is worth 2 credits.**

Ms. Leonard has $110 to buy bottles of craft paint at the store. Each bottle is $9. What is the greatest number of bottles of craft paint Ms. Leonard can buy with the amount of money she has?

Show your work.

Answer _____ bottles

44 **This question is worth 3 credits.**

Mr. Benson is making burgers based on the information below.

- He has 4 pounds of meat.
- He uses $\frac{1}{4}$ pound of meat for each burger.
- He makes 9 burgers.

How many pounds of meat does Mr. Benson have left over after making all the burgers?

Explain how you determined your answer.

STOP